

33. An endoluminal prosthesis, comprising:
a seamless tubular substrate having an abluminal surface; and
an elastically deformable and elastically recoverable wire member concentrically
surrounded by a polymeric cladding, wherein the clad wire member is
circumferentially disposed about the tubular substrate, the cladding being
in intimate contact with and joined to the abluminal surface thereof.

34. The endoluminal prosthesis according to Claim 33, wherein the polymeric
cladding is selected from the group consisting of polytetrafluoroethylene, polyurethane,
polyethylene, polypropylene, polyamide, polyimide, polyesters, polypropylene, polyethylene,
polyfluoroethylenes, silicone, fluorinated polyolefins, fluorinated ethylene/propylene copolymer,
perfluoroalkoxy fluorocarbon, ethylene/tetrafluoroethylene copolymer, and
polyvinylpyrrolidone.

35. The endoluminal prosthesis according to Claim 33, wherein the wire
member comprises a material selected from the group consisting of shape memory alloys,
biocompatible spring steels, biocompatible spring metal alloys, and carbon fibers.

36. The endoluminal prosthesis according to Claim 35, wherein the shape
memory alloys further comprise nickel-titanium alloys.

37. The endoluminal prosthesis according to Claim 35, wherein the wire
member further comprises a shape memory alloy with a pre-programmed austenite dimensional
state, which has substantially the same diametric dimension as the tubular substrate.

38. The endoluminal prosthesis according to Claim 33, wherein the substrate
comprises a biocompatible material selected from the group consisting of expanded
polytetrafluoroethylene, polyethylene, polyethylene terephthalate, polyurethane, and collagen.

39. The endoluminal prosthesis according to Claim 33, wherein the wire member comprises a plurality of circumferential rings.

40. The endoluminal prosthesis according to Claim 33, further comprising a second seamless tubular substrate, circumferentially disposed about the cladding and the abluminal surface of the seamless tubular substrate.

COPIES